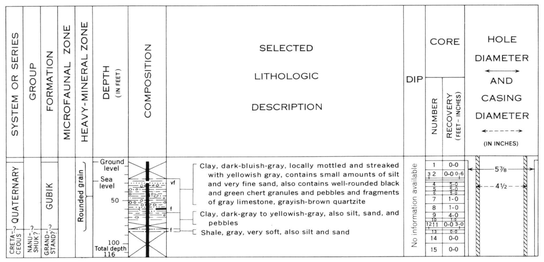
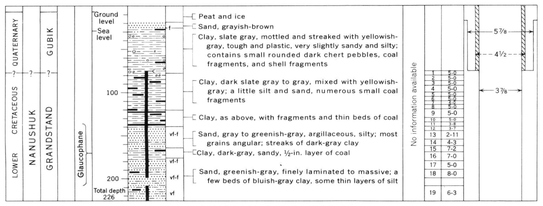


SIMPSON CORE TEST 1



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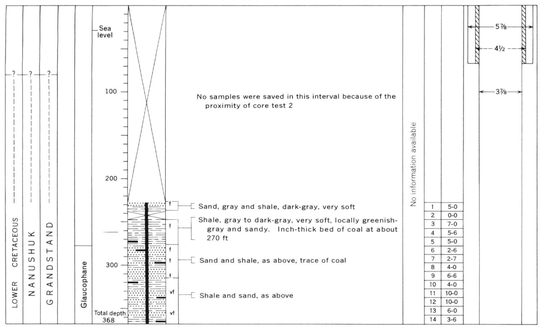

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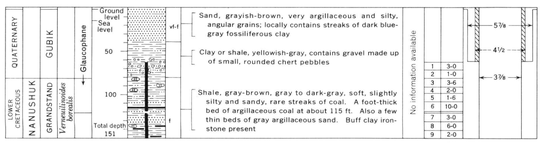

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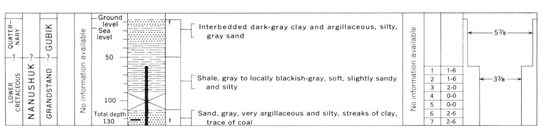

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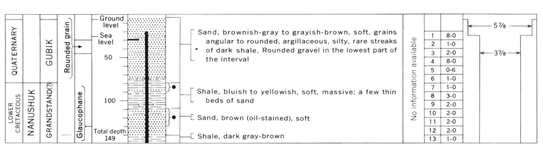
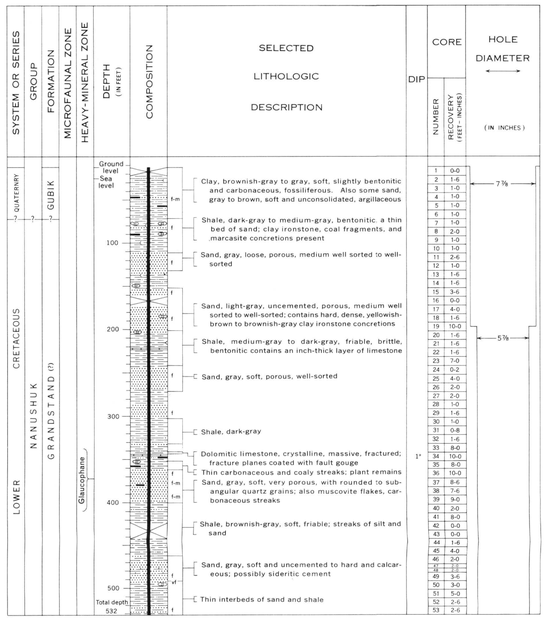
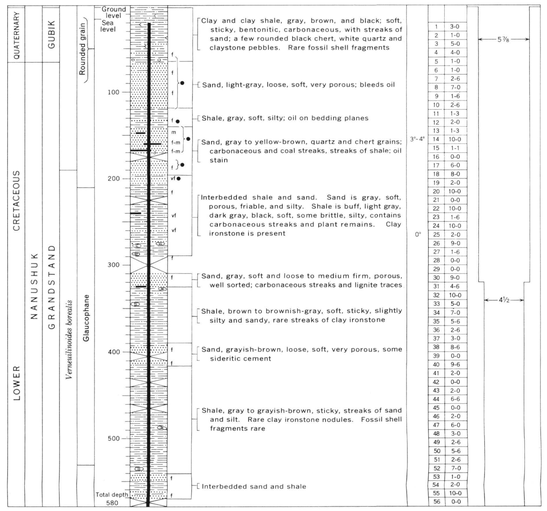


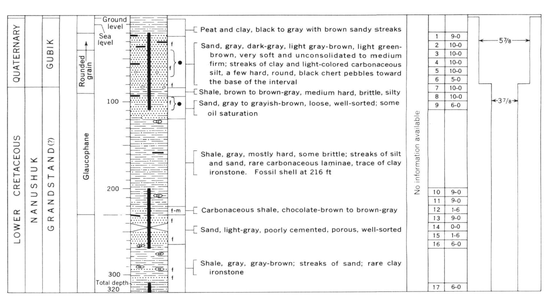
SIMPSON CORE TEST 6



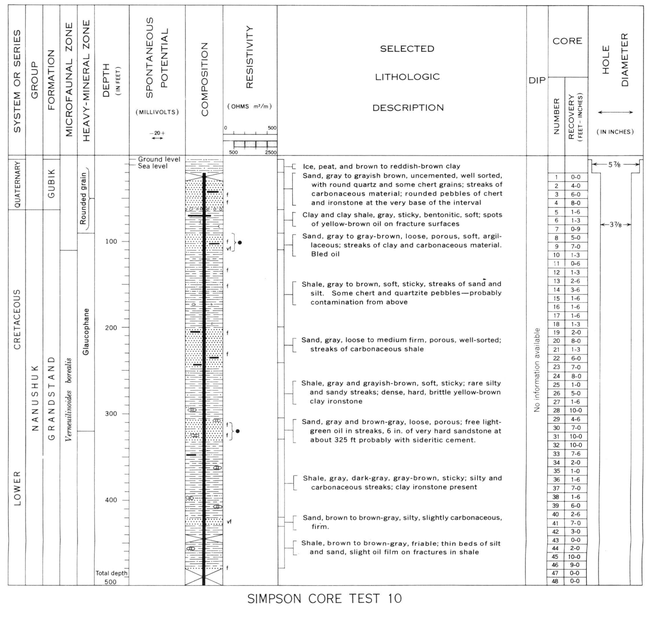
SIMPSON CORE TEST 7



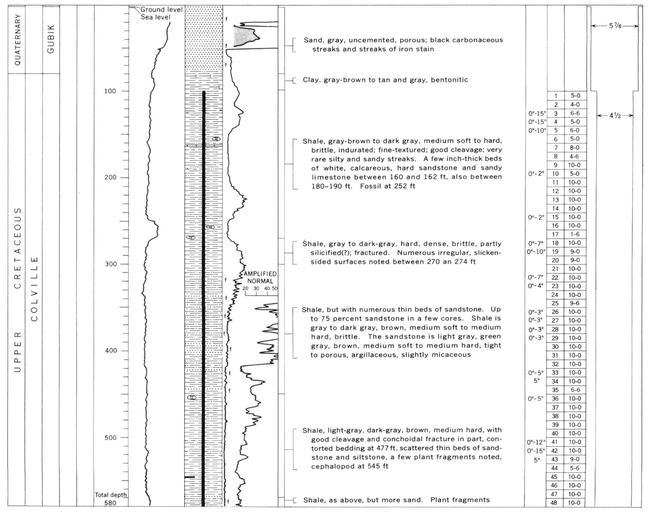
SIMPSON CORE TEST 8



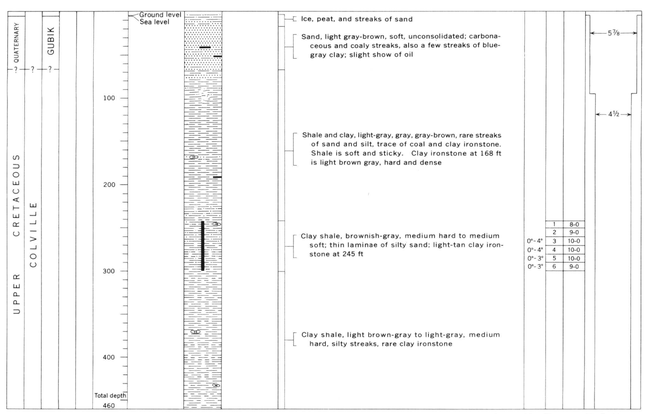
SIMPSON CORE TEST 9



SIMPSON CORE TEST 10



SIMPSON CORE TEST 11



SIMPSON CORE TEST 12

Logged by Florence M. Robinson
J. S. Templeton, and G. O. Relf

CORE TEST	LOCATION	ELEVATION	SPUDDED	COMPLETED	TOTAL DEPTH	STATUS
1	Lat 70°56'42"N Long 155°17'22"W	Kelly bushing, 27 feet Ground, 21 feet	June 25, 1945	June 29, 1945	116 feet	Dry and abandoned
2	Lat 70°55'39"N Long 155°17'30"W	Kelly bushing, 29 feet Ground, 11 feet	June 30, 1945	July 2, 1945	226 feet	Junked and abandoned
3	Lat 70°55'38.5"N Long 155° 7'30"W	Kelly bushing, 29 feet	July 3, 1945	July 7, 1945	368 feet	Junked and abandoned
4	Lat 70°55'46"N Long 155°15'50"W	Kelly bushing, 14 feet Ground, 12 feet	July 8, 1945	July 10, 1945	151 feet	Dry and abandoned
5	Lat 70°56'12"N Long 155°16'45"W	Kelly bushing, 17 feet Ground, 11 feet	July 11, 1945	July 12, 1945	130 feet	Dry and abandoned
6	Lat 70°55'58"N Long 155°18'53"W	Kelly bushing, 26 feet Ground, 20 feet	July 12, 1945	July 13, 1945	149 feet	Dry and abandoned
7	Lat 70°56'49"N Long 155°18'09"W	Kelly bushing, 26 feet Ground, 14 feet	July 15, 1945	July 25, 1945	532 feet	Dry and abandoned
8	Lat 70°56'43"N Long 155°17'38"W	Kelly bushing, 16 feet Ground, 14 feet	July 27, 1945	August 3, 1945	580 feet	Dry and abandoned
9	Lat 70°57'27"N Long 155°17'31"W	Kelly bushing, 11 feet Ground, 8 feet	August 5, 1945	August 7, 1945	320 feet	Dry and abandoned
10	Lat 70°57'43"N Long 155°17'32"W	Kelly bushing, 11 feet Ground, 7 feet	August 8, 1945	August 15, 1945	500 feet	Dry and abandoned
11	Lat 70°56'49"N Long 155°17'32"W	Kelly bushing, 3 feet Ground, 1 foot	August 17, 1945	August 26, 1945	580 feet	Dry and abandoned
12	Lat 70°56'19"N Long 155°17'30"W	Kelly bushing, 6 feet Ground, 1 foot	August 27, 1945	August 29, 1945	460 feet	Dry and abandoned

EXPLANATION

- Conglomerate
- Sandstone
- Silty sandstone
- Calcareous sandstone
- Siltstone
- Sandy siltstone
- Calcareous siltstone
- Clay shale or claystone
- Sandy clay shale or claystone
- Silty clay shale or claystone
- Calcareous clay shale or claystone
- Clay ironstone
- Coal or carbonaceous material
- Limestone
- Bentonite
- Cored interval
- No samples recovered
- Oil show
- vf Very fine grained
- f Fine grained
- m Medium grained
- c Coarse grained
- AM Electrode spacing

Drilling and engineering data compiled from records of Arctic Contractors

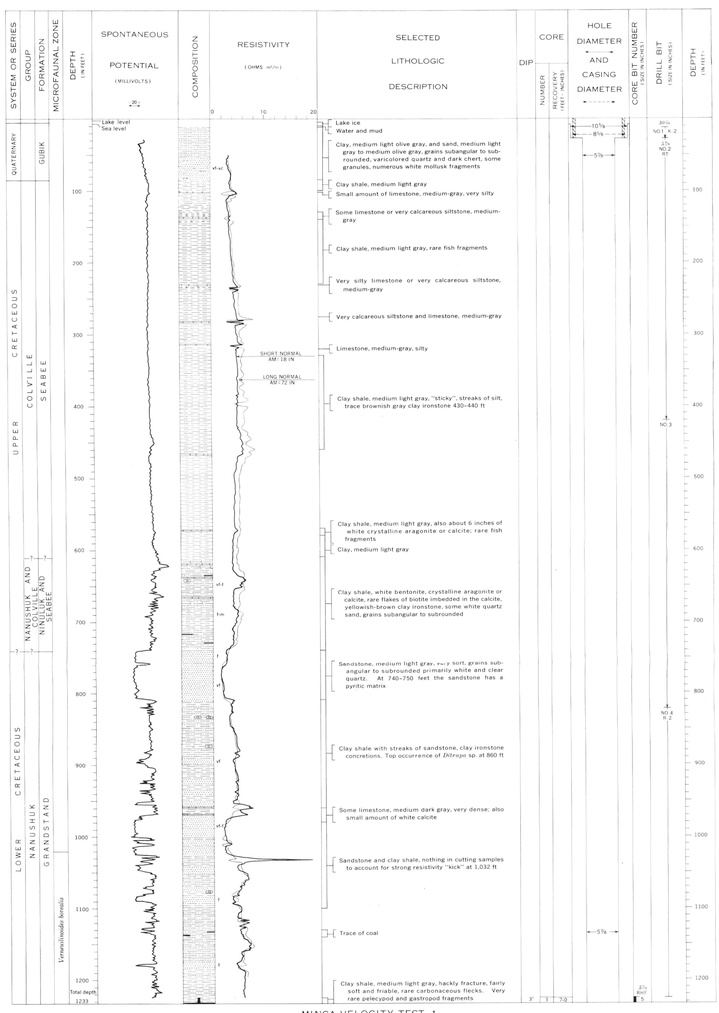
Electric log by Schlumberger Well Surveying Corporation

All depths are measured from the top of the kelly bushing

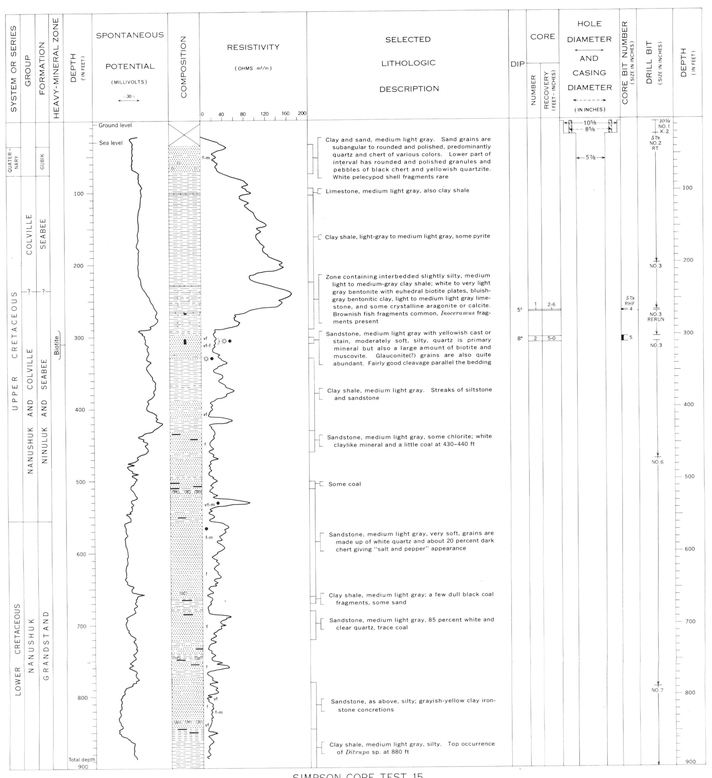
Colors were determined by comparison of dry samples with the National Research Council Rock Color Chart, 1948

723-926 O - 64 (In pocket)

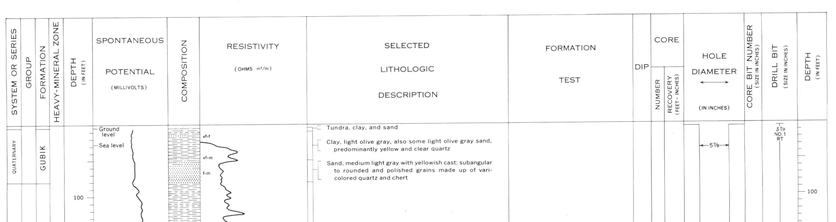
GRAPHIC LOGS OF SIMPSON CORE TESTS 1–12, ALASKA



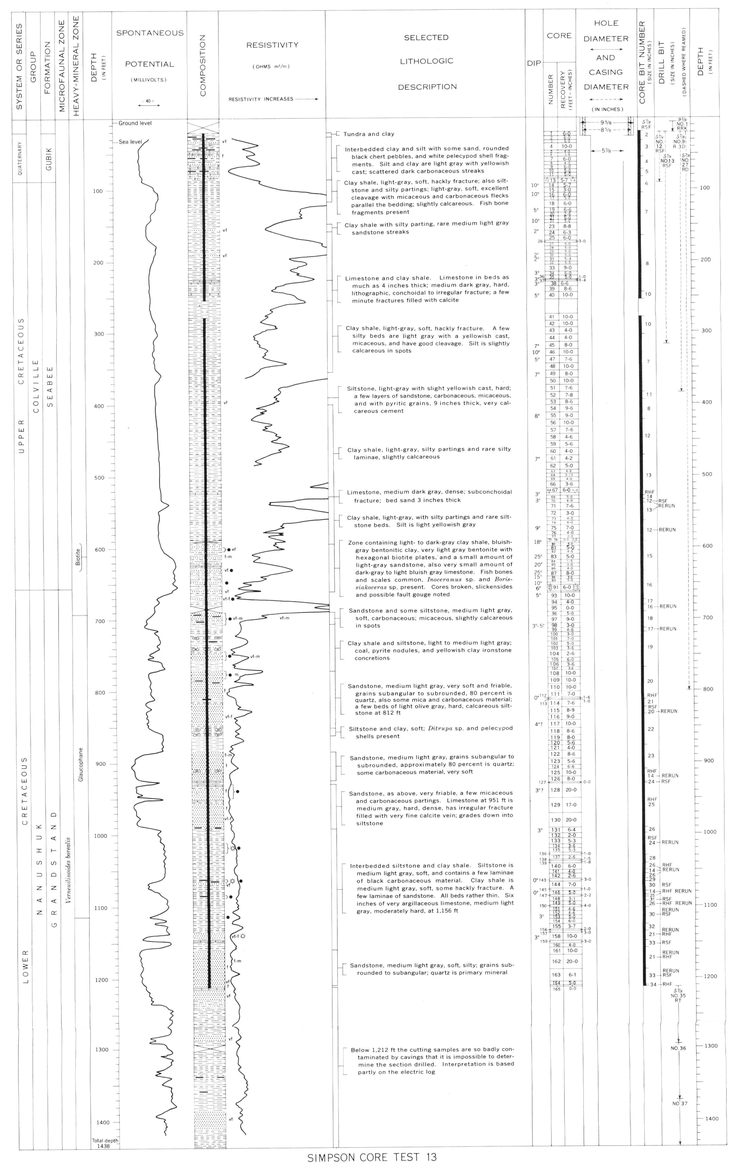
MINGA VELOCITY TEST 1



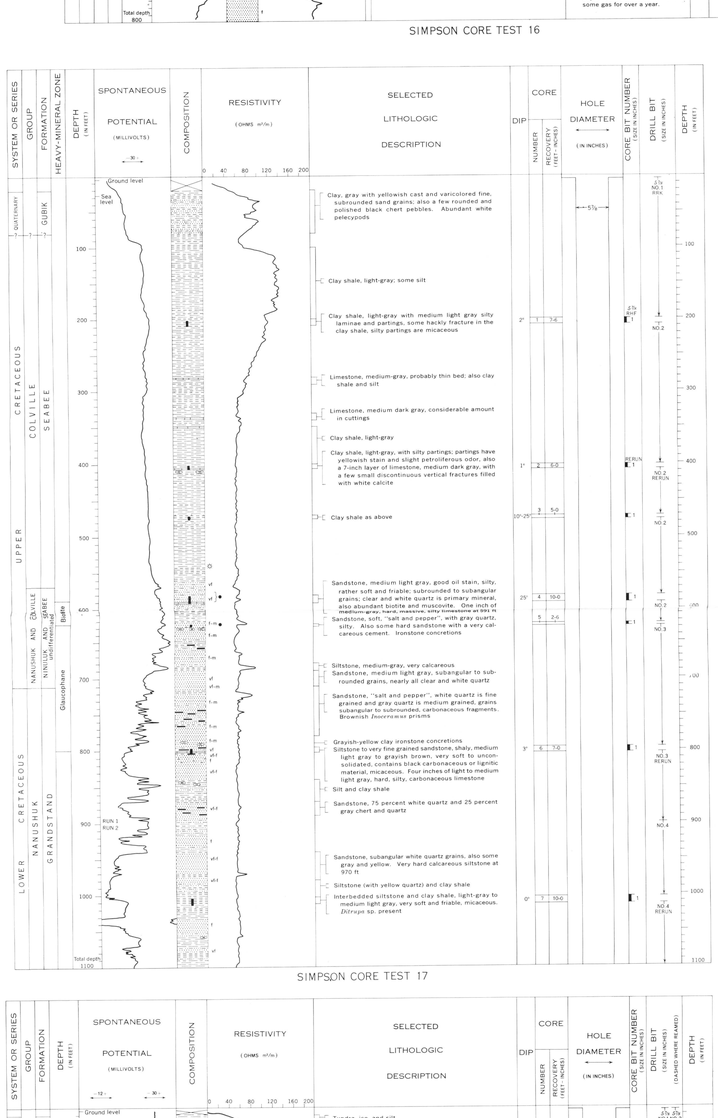
SIMPSON CORE TEST 15



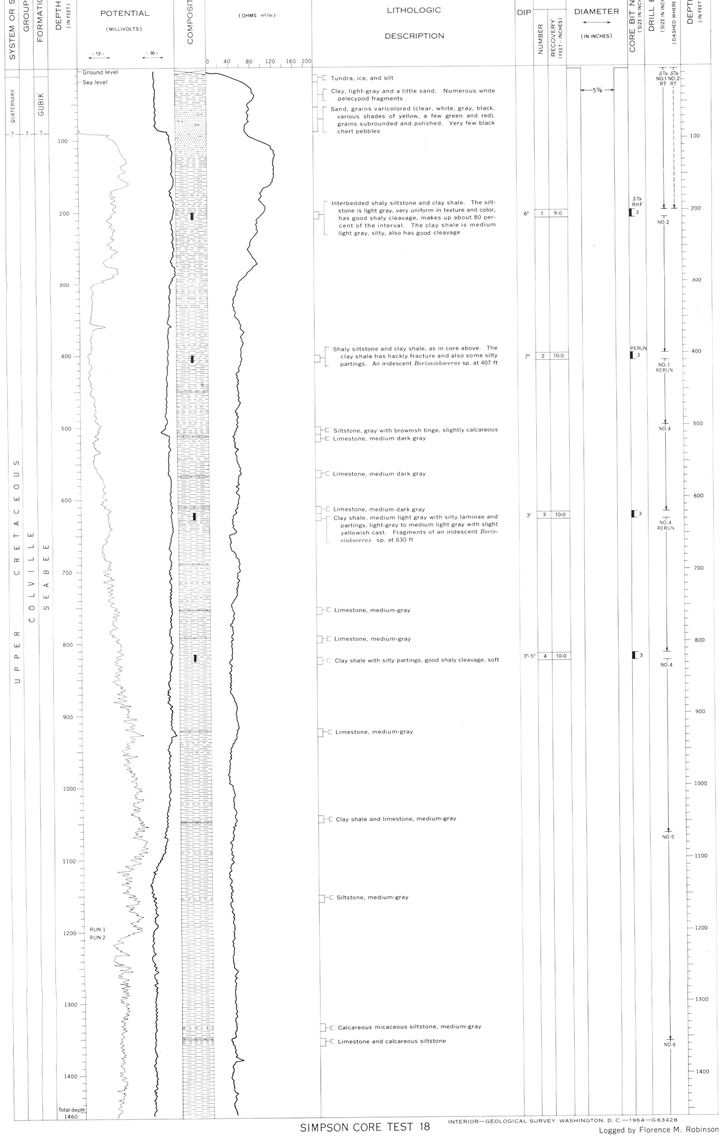
SIMPSON CORE TEST 16



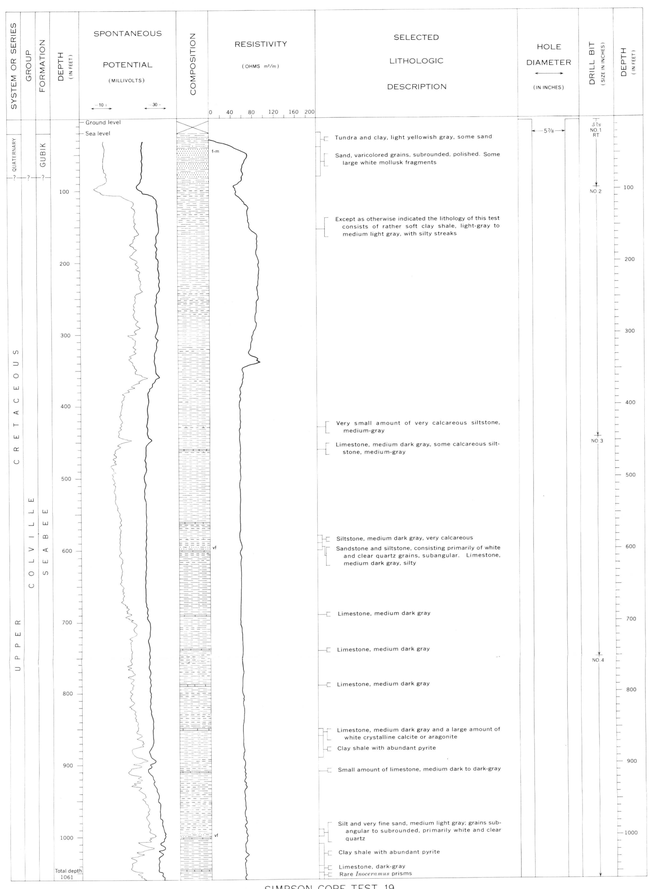
SIMPSON CORE TEST 13



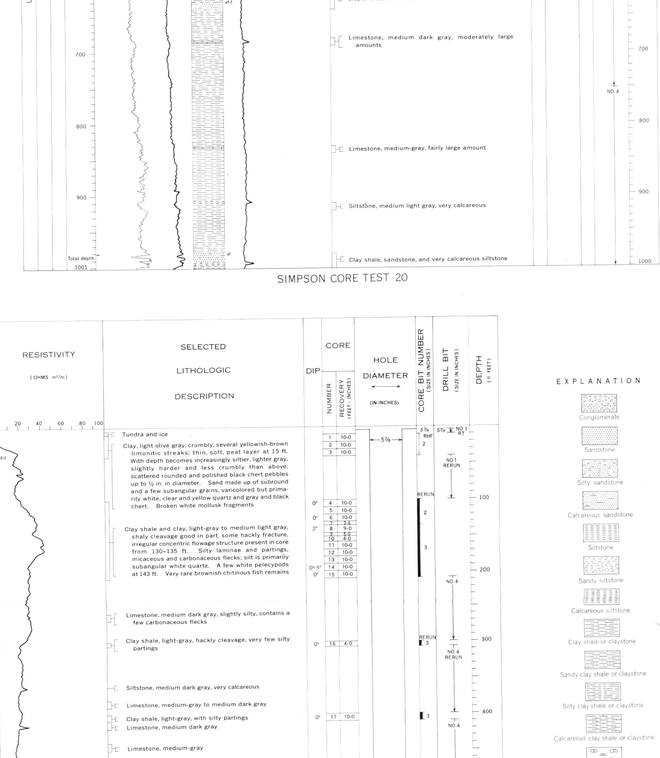
SIMPSON CORE TEST 17



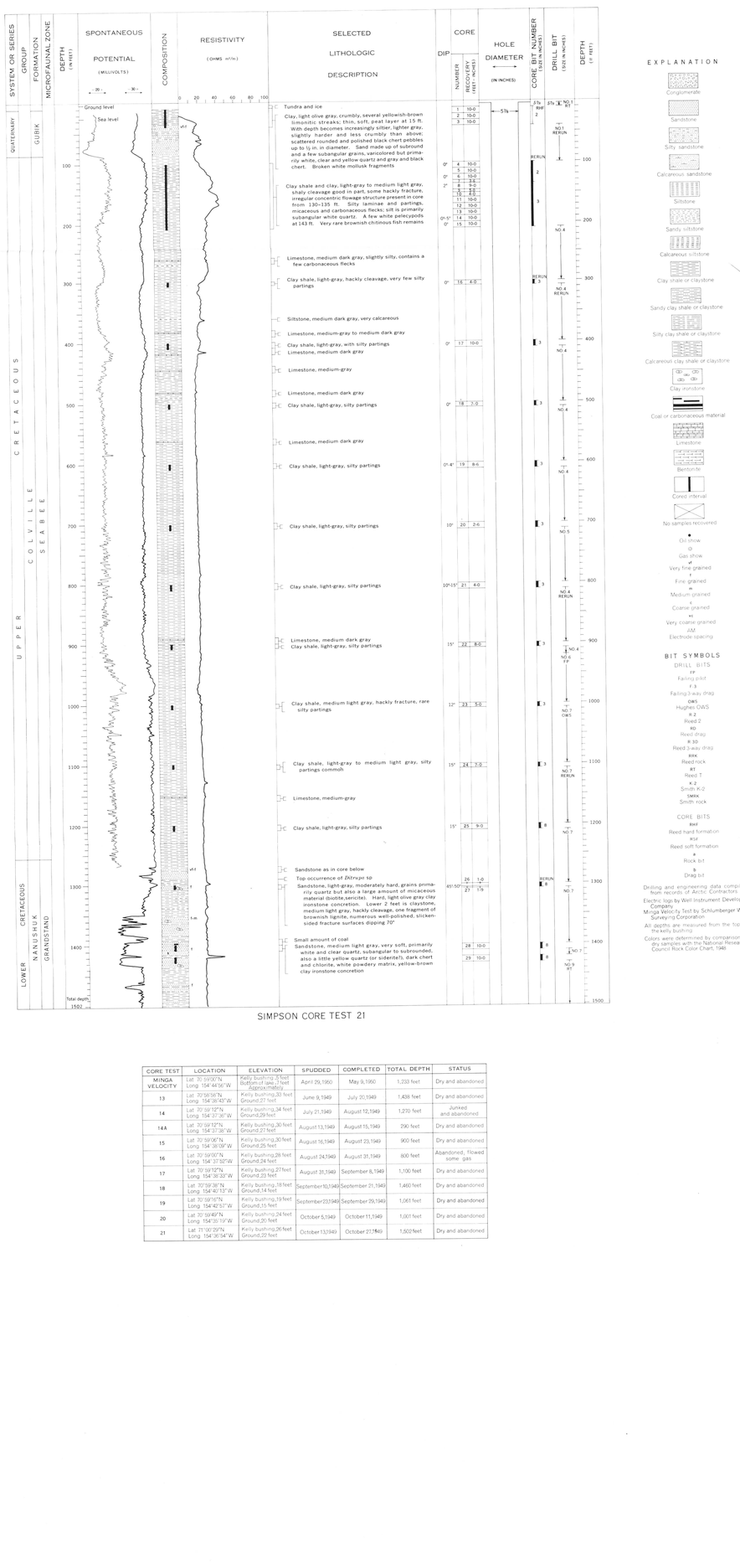
SIMPSON CORE TEST 18



SIMPSON CORE TEST 19



SIMPSON CORE TEST 20



SIMPSON CORE TEST 21

EXPLANATION

- Conglomerate
- Sandstone
- Silty sandstone
- Calcareous sandstone
- Siltstone
- Sandy siltstone
- Calcareous siltstone
- Clay shale or claystone
- Sandy clay shale or claystone
- Silty clay shale or claystone
- Calcareous clay shale or claystone
- Clay ironstone
- Coal or carbonaceous material
- Limestone
- Bentonite
- Cored interval
- No samples recovered
- Oil show
- Gas show
- vf Very fine grained
- f Fine grained
- m Medium grained
- c Coarse grained
- vc Very coarse grained
- AM Electrode spacing

BIT SYMBOLS

DRILL BITS
- FP Fishing pilot
- F-3 Fishing 3-way drag
- HWS Hughes OWS
- K-2 Reed 2
- RD Reed drag
- K-33 Reed 3-way drag
- RRK Reed rock
- RT Reed T
- K-2 Smith K-2
- SMRK Smith rock

CORE BITS
- Rred Reed hard formation
- RSF Reed soft formation
- Rock bit
- Drag bit

Drilling and engineering data compiled from records of Arctic Contractors

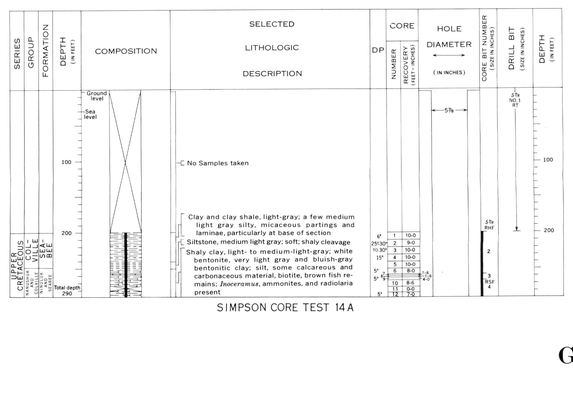
Electric logs by Well Instrument Developing Company

Minga Velocity Test by Schlumberger Well Surveying Corporation

All depths are measured from the top of the kelly bushing.

Colors were determined by comparison of dry samples with the National Research Council Rock Color Chart, 1948

CORE TEST	LOCATION	ELEVATION	SPUDDED	COMPLETED	TOTAL DEPTH	STATUS
MINGA VELOCITY	Lat. 70°59'07"N. Long. 154°44'56"W	Kelly bushing, 2 feet Bottom of lake, 7 feet Approximately	April 29, 1950	May 9, 1950	1,233 feet	Dry and abandoned
13	Lat. 70°56'56"N. Long. 154°36'43"W	Kelly bushing, 33 feet Ground, 27 feet	June 9, 1949	July 20, 1949	1,438 feet	Dry and abandoned
14	Lat. 70°59'17"N. Long. 154°37'36"W	Kelly bushing, 34 feet Ground, 29 feet	July 21, 1949	August 12, 1949	1,270 feet	Junked and abandoned
14A	Lat. 70°59'12"N. Long. 154°37'36"W	Kelly bushing, 30 feet Ground, 27 feet	August 13, 1949	August 15, 1949	290 feet	Dry and abandoned
15	Lat. 70°59'06"N. Long. 154°38'09"W	Kelly bushing, 30 feet Ground, 25 feet	August 16, 1949	August 23, 1949	900 feet	Dry and abandoned
16	Lat. 70°59'00"N. Long. 154°37'52"W	Kelly bushing, 28 feet Ground, 24 feet	August 24, 1949	August 31, 1949	800 feet	Abandoned, flowed some gas
17	Lat. 70°59'12"N. Long. 154°38'33"W	Kelly bushing, 27 feet Ground, 23 feet	August 31, 1949	September 8, 1949	1,100 feet	Dry and abandoned
18	Lat. 70°59'38"N. Long. 154°40'13"W	Kelly bushing, 18 feet Ground, 14 feet	September 10, 1949	September 21, 1949	1,460 feet	Dry and abandoned
19	Lat. 70°59'16"N. Long. 154°42'57"W	Kelly bushing, 19 feet Ground, 15 feet	September 23, 1949	September 29, 1949	1,061 feet	Dry and abandoned
20	Lat. 70°59'49"N. Long. 154°35'19"W	Kelly bushing, 24 feet Ground, 20 feet	October 5, 1949	October 11, 1949	1,001 feet	Dry and abandoned
21	Lat. 71°00'39"N. Long. 154°36'54"W	Kelly bushing, 26 feet Ground, 22 feet	October 13, 1949	October 27, 1949	1,502 feet	Dry and abandoned



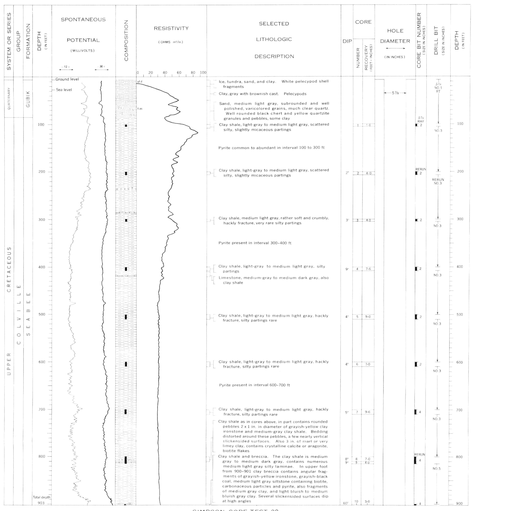
SIMPSON CORE TEST 14A

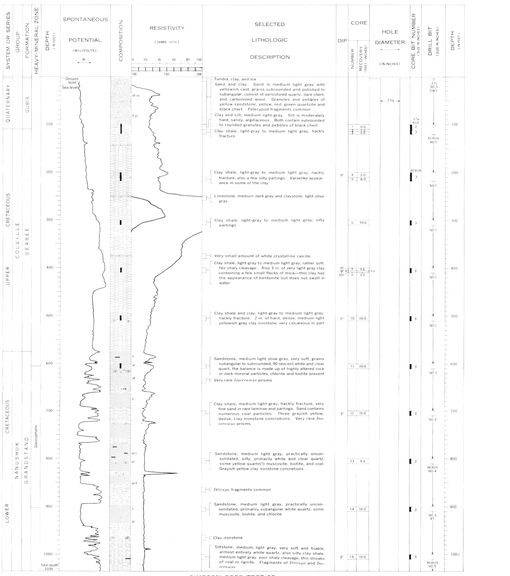
INTERIOR—GEOLOGICAL SURVEY: WASHINGTON, D. C.—1964—G 63428

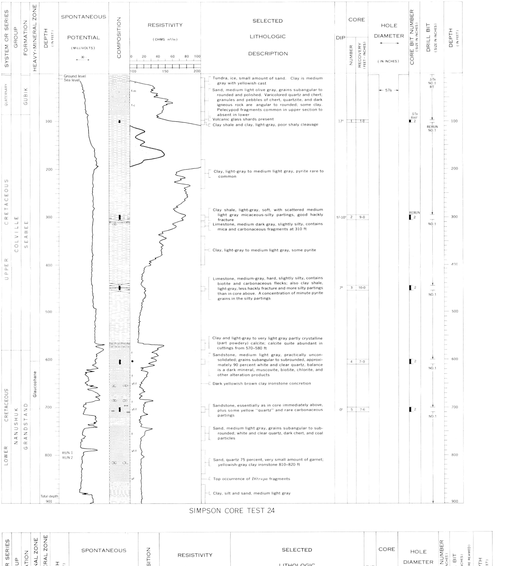
Logged by Florence M. Robinson

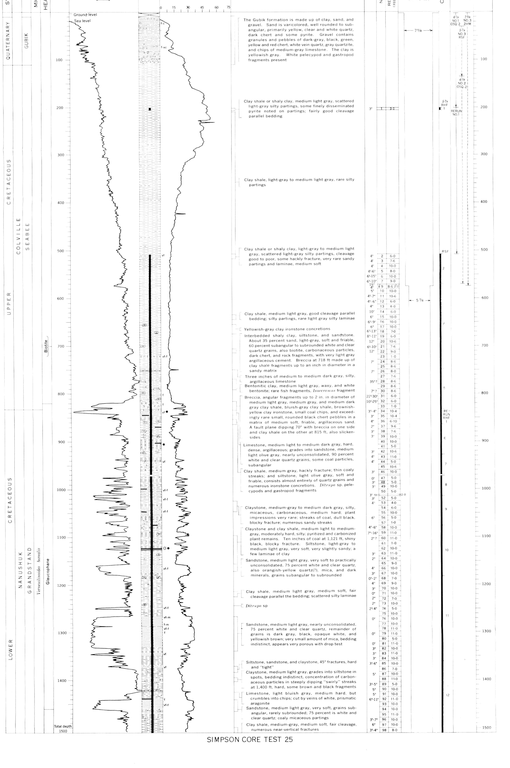
GRAPHIC LOGS OF SIMPSON CORE TESTS 13–21 AND MINGA VELOCITY TEST 1, ALASKA

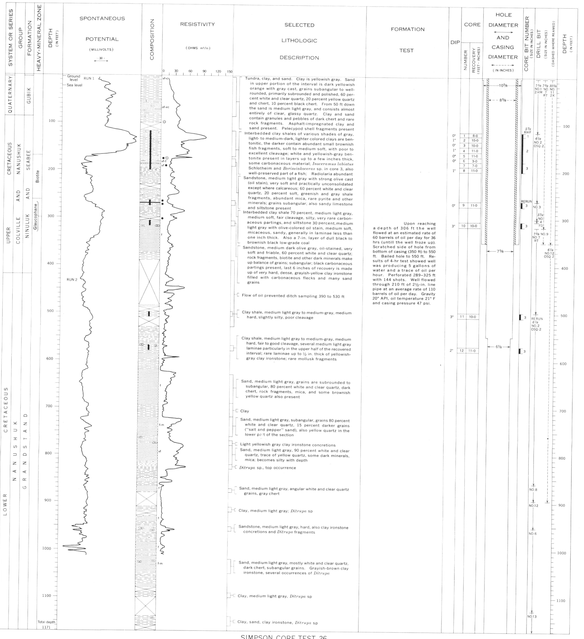
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

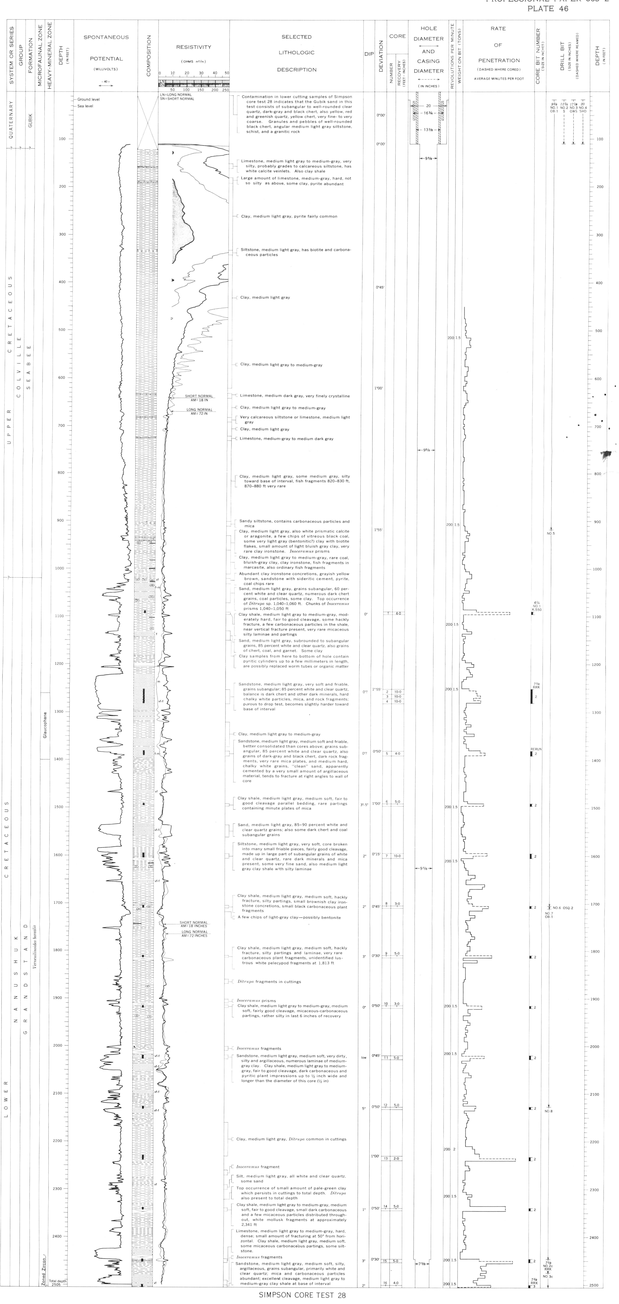


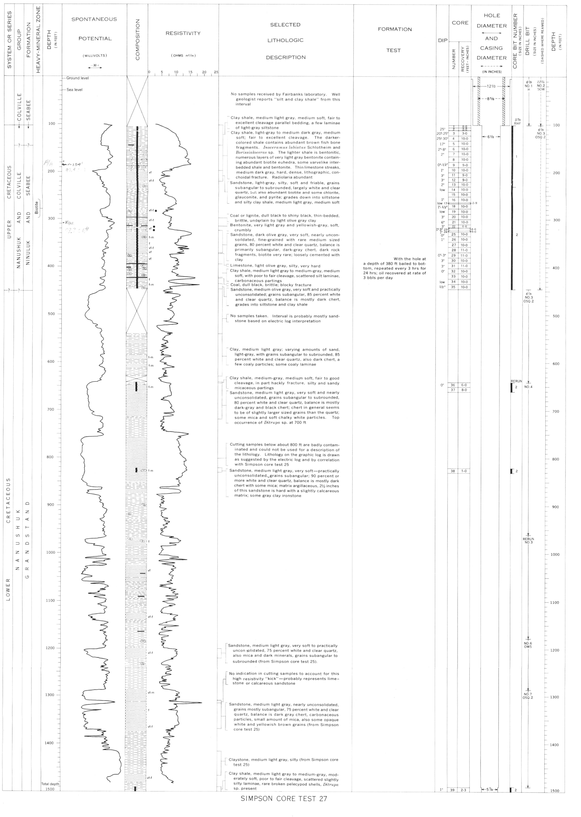


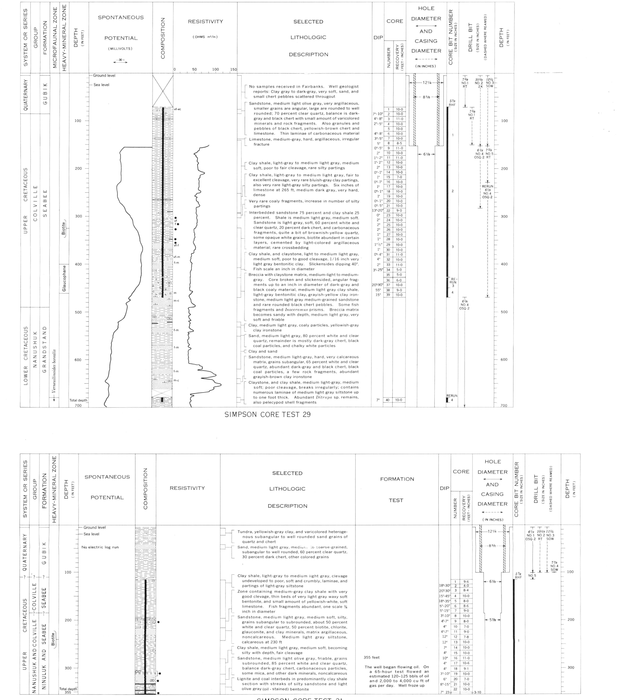


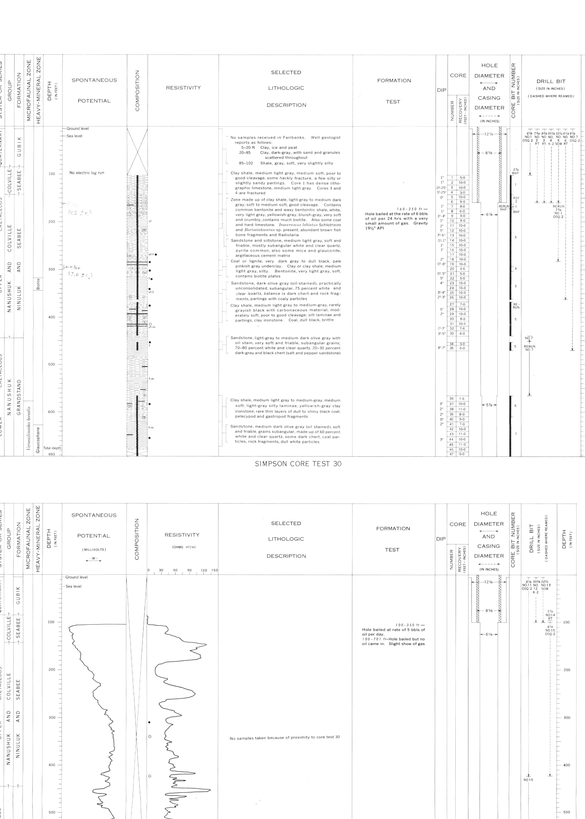












EXPLANATION

Conglomerate
Sandstone
Silty sandstone
Calcareous sandstone
Siltstone
Sandy siltstone
Clay shale or claystone
Sandy clay shale or claystone
Silty clay shale or claystone
Calcareous clay shale or claystone
Breccia
Clay ironstone
Coal or carbonaceous material
Limestone
Bentonite
Core interval
Sidewall cores

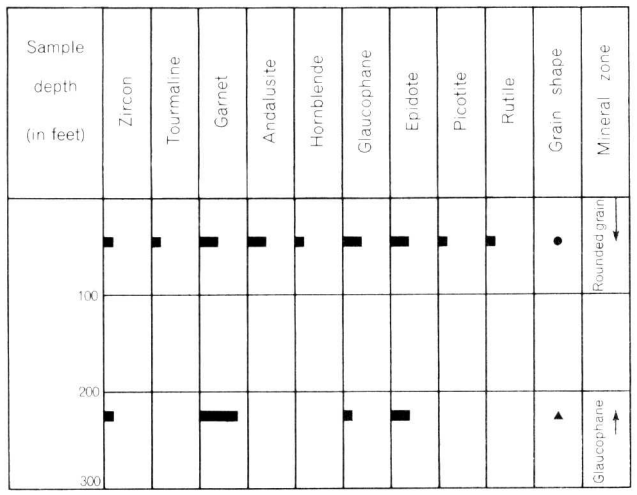
No samples recovered
Oil show
Gas show
Very fine grained
Fine grained
Medium grained
Coarse grained
Very coarse grained
HM Electrode spacing
BIT SYMBOLS
DP(S) - RR(S)
HI Tricone bit
Hughes FDGJ-3
OWC Hughes OWS
JJW Reed T-HM
HJ Reed T rock
S Security type unspecified
SH-1 Security S-H-1
MB Security hole opener
SH-2 Security S-H-2
Core bit used for drilling insert
CORE BITS
And Reed hard formation
RCB Reed wire line rock
RM Reed soft formation

Drilling and engineering data compiled from records of Arctic Contractors
Electric logs by Well Instrument Developing Company
All depths are measured from the top of the Kelly bushing
Colors were determined by comparison of dry samples with the National Research Council Rock Color Chart, 1948

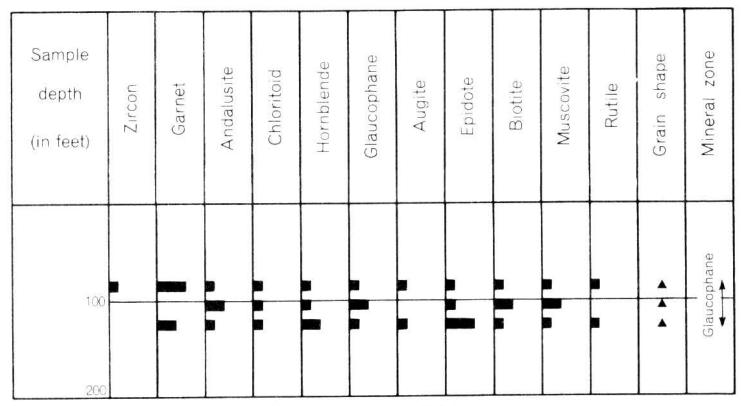
CORE TEST	LOCATION	ELEVATION	SPUDDED	COMPLETED	TOTAL DEPTH	STATUS
22	Lat. 70°32'57"N Long. 154°47'17"W	Kelly bushing 25 feet Ground 21 feet	October 25,1949	November 5,1949	903 feet	Dry and abandoned
23	Lat. 70°33'47"N Long. 154°38'35"W	Kelly bushing 25 feet Ground 15 feet	November 8,1949	November 15,1949	1,125 feet	Dry and abandoned
24	Lat. 70°31'47"N Long. 154°33'17"W	Kelly bushing 27 feet Ground 6 feet	November 28,1949	November 29,1949	901 feet	Dry and abandoned
25	Lat. 70°32'57"N Long. 154°42'37"W	Kelly bushing 25 feet Ground 21 feet	July 3,1950	August 12,1950	1,510 feet	Dry and abandoned
26	Lat. 70°34'36"N Long. 154°41'04"W	Kelly bushing 25 feet Ground 21 feet	August 13,1950	October 23,1950	1,177 feet	Initial production 110 barrels of oil per day Shut in
27	Lat. 70°36'10"N Long. 154°39'47"W	Kelly bushing 29 feet Ground 25 feet	February 8,1951	March 14,1951	1,500 feet	Abandoned
28	Lat. 70°34'00"N Long. 154°40'18"W	Kelly bushing 25 feet Ground 21 feet	September 6,1950	September 26,1950	2,505 feet	Dry and abandoned
29	Lat. 70°33'47"N Long. 154°41'37"W	Kelly bushing 25 feet Ground 21 feet	October 27,1950	November 25,1950	710 feet	Dry and abandoned
30	Lat. 70°35'17"N Long. 154°40'19"W	Kelly bushing 31 feet Ground 26 feet	November 30,1950	January 23,1951	600 feet	Junked and abandoned
30A	Lat. 70°35'17"N Long. 154°40'19"W	Kelly bushing 26 feet Ground 20 feet	January 25,1951	February 5,1951	311 feet	Dry and abandoned
31	Lat. 70°33'26"N Long. 154°37'44"W	Kelly bushing 29 feet Ground 14 feet	March 20,1951	April 2,1951	355 feet	Initial production 150 barrels of oil per day (100% 40°-API color) feet of gas per day Shut in

GRAPHIC LOGS OF SIMPSON CORE TESTS 22–31, ALASKA

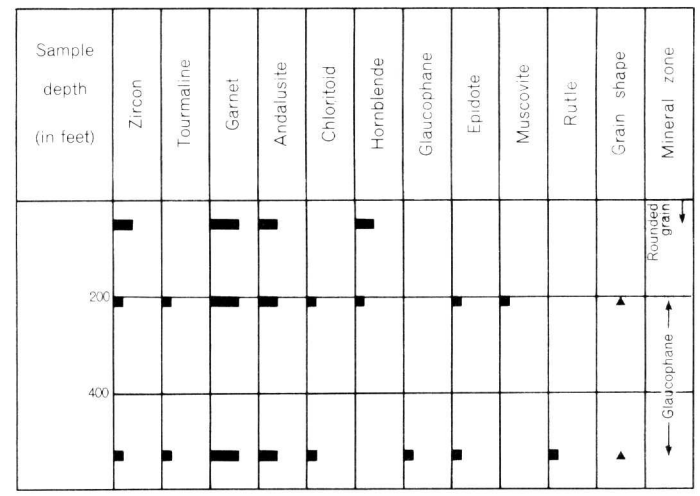
INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964—G64439
Logged by Florence M. Robinson



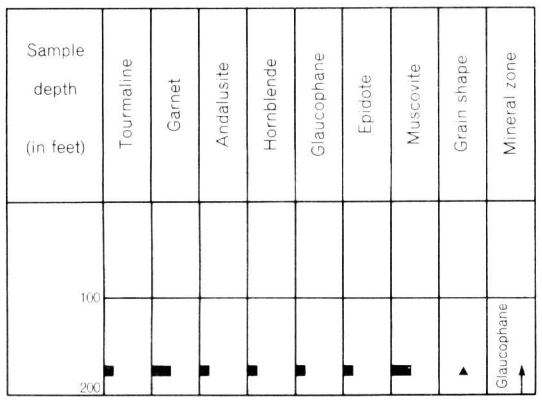
SIMPSON CORE TEST 1



SIMPSON CORE TEST 4



SIMPSON CORE TEST 8



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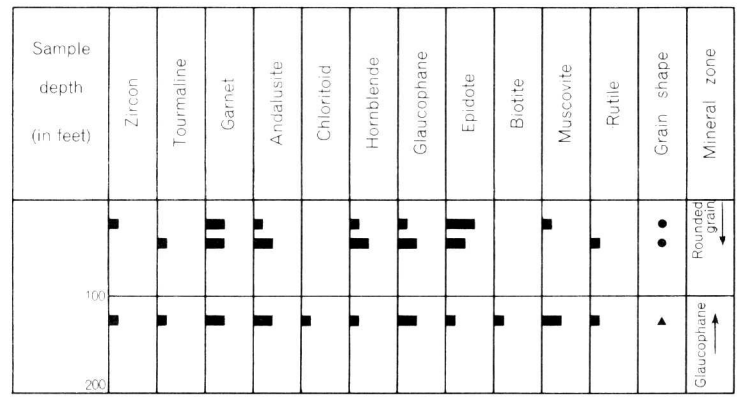
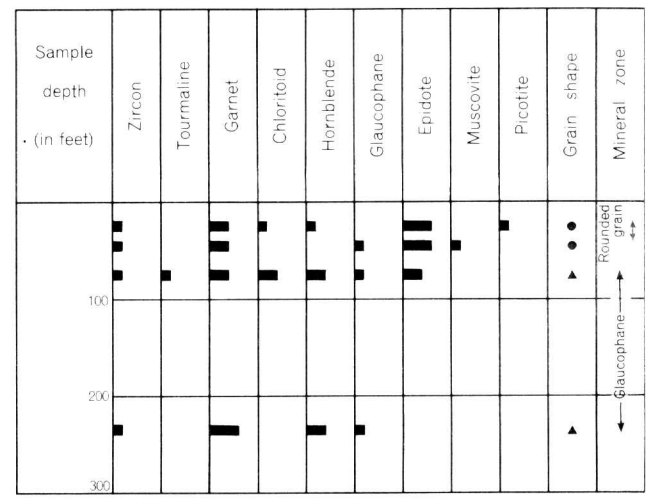
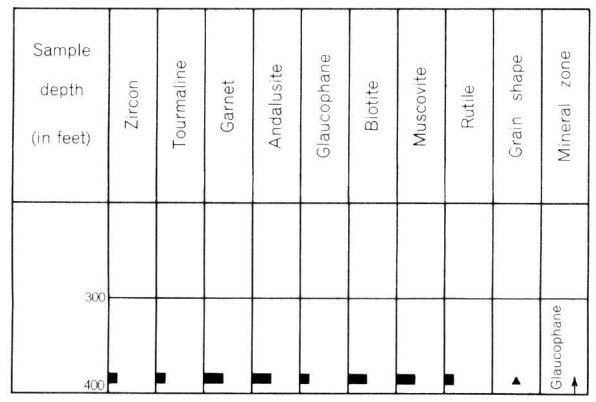


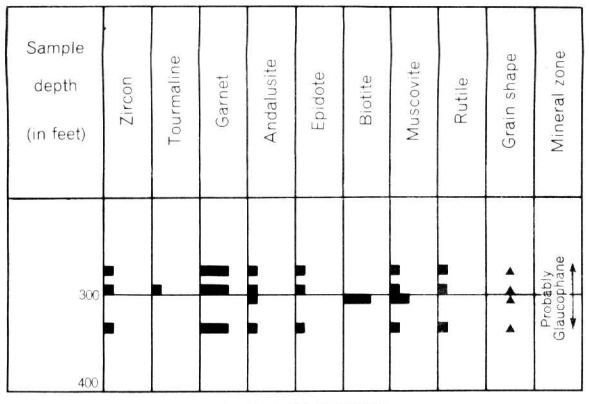
SIMPSON CORE TEST 6



SIMPSON CORE TEST 9



SIMPSON CORE TEST 7



SIMPSON CORE TEST 3

EXPLANATION

Rare (Less than 10 percent)

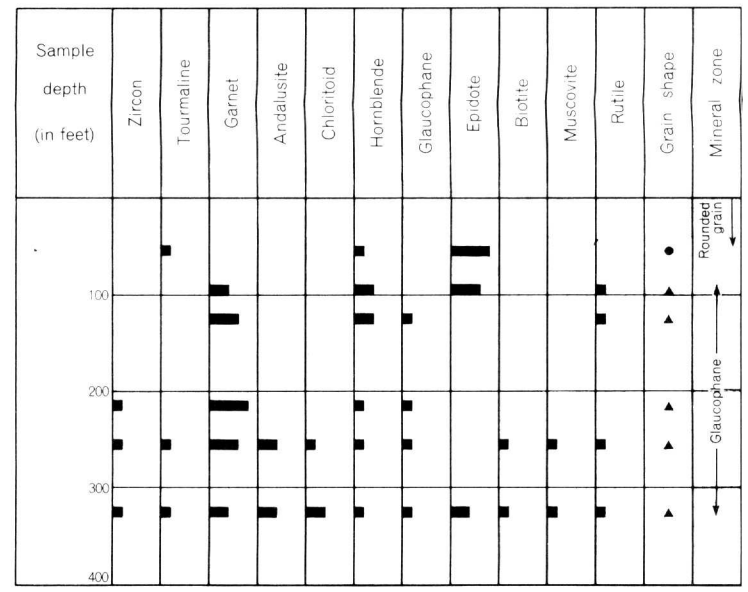
Common (10 to 40 percent)

Abundant (40 to 80 percent)

Flood(over 80 percent)

Angular

Rounded

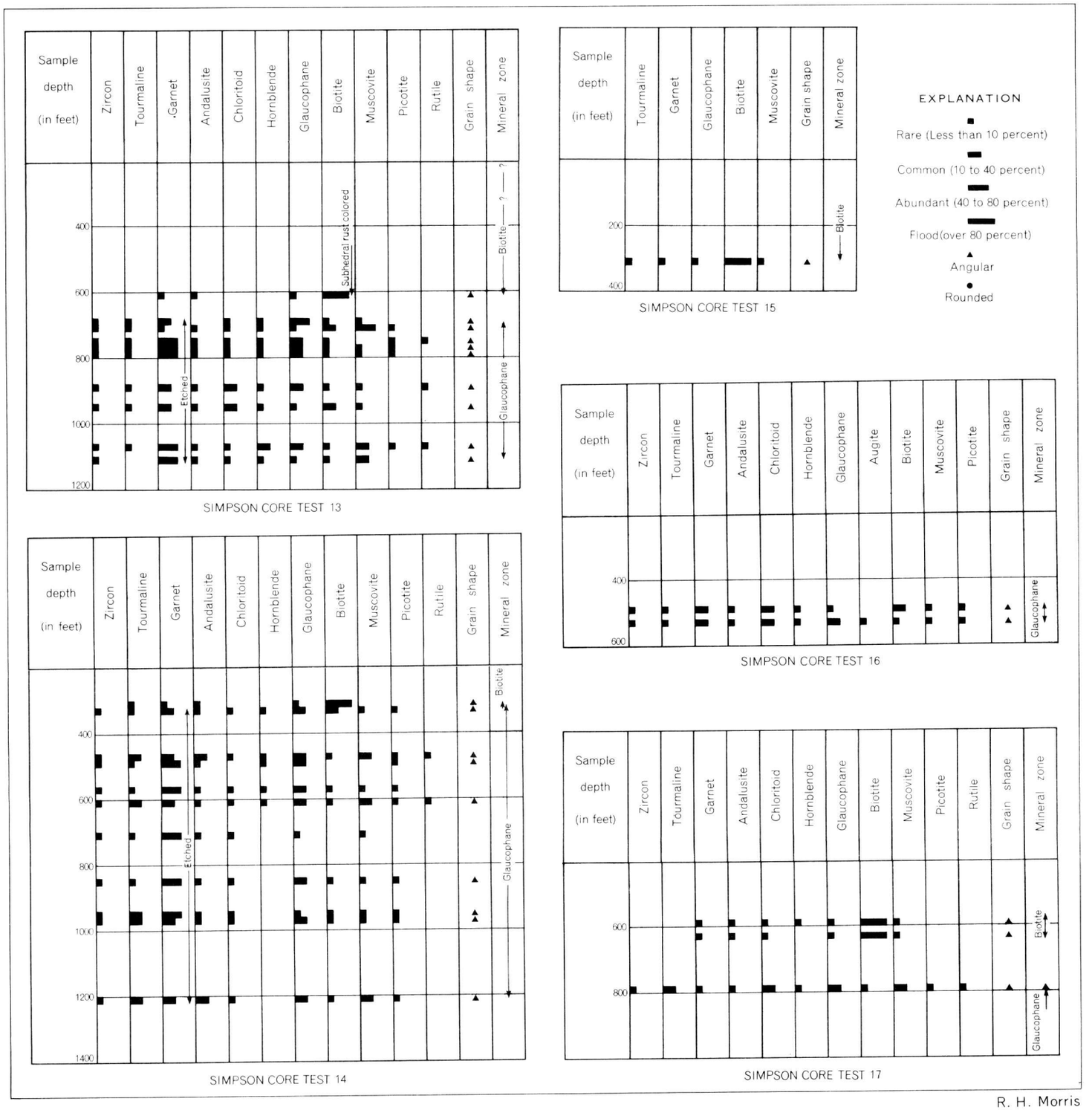


SIMPSON CORE TEST 10

R. H. Morris

RELATIVE ABUNDANCE OF HEAVY MINERALS IN SIMPSON CORE TESTS 1–4 AND 6–10, ALASKA

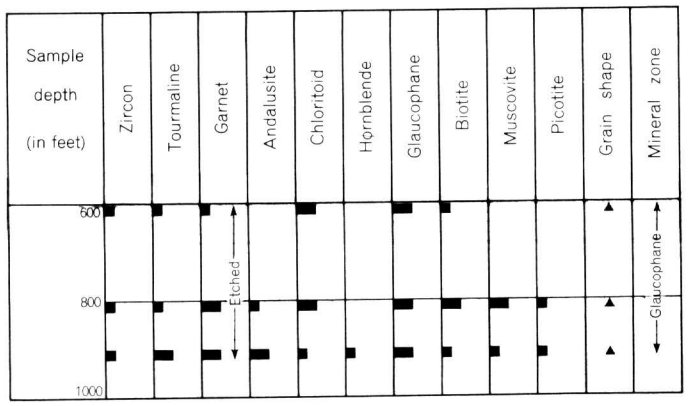
723-926 O - 64 (In pocket)



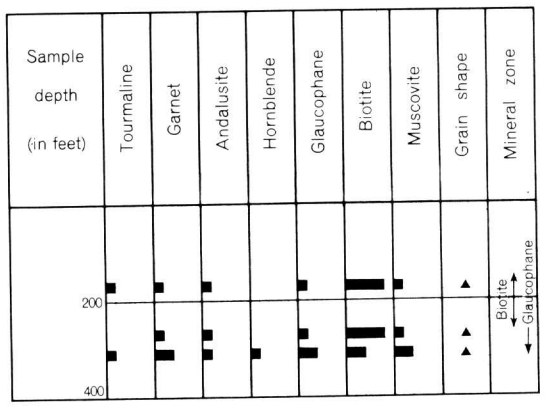
R. H. Morris

RELATIVE ABUNDANCE OF HEAVY MINERALS IN SIMPSON CORE TESTS 13–17, ALASKA

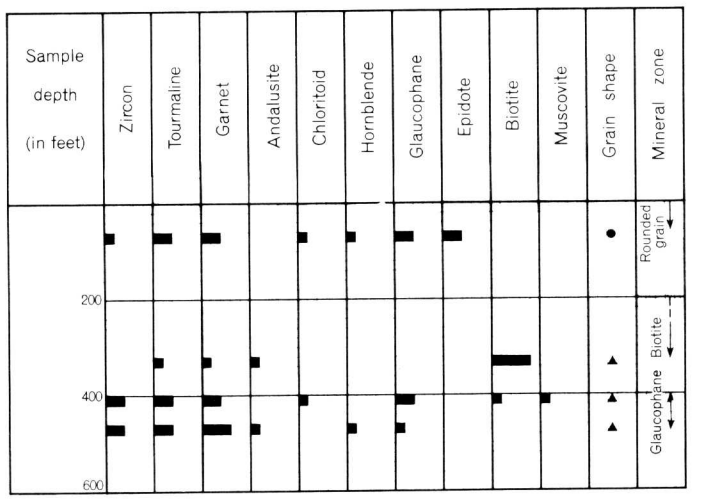
723-926 O - 64 (In pocket)



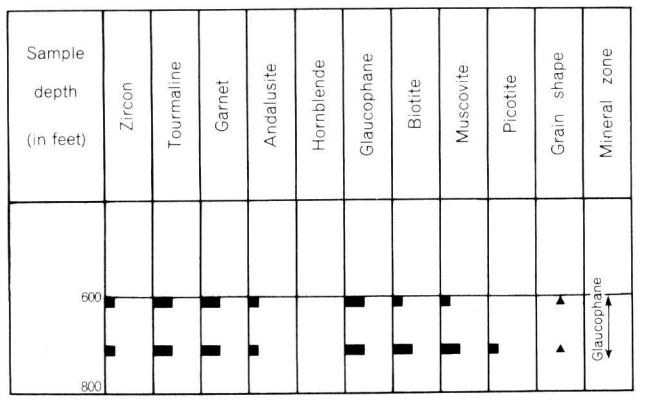
SIMPSON CORE TEST 23



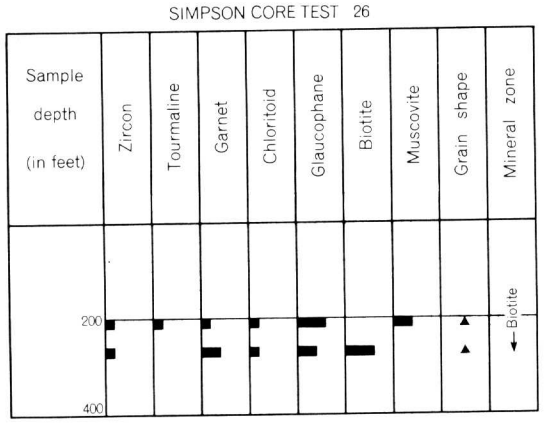
SIMPSON CORE TEST 26



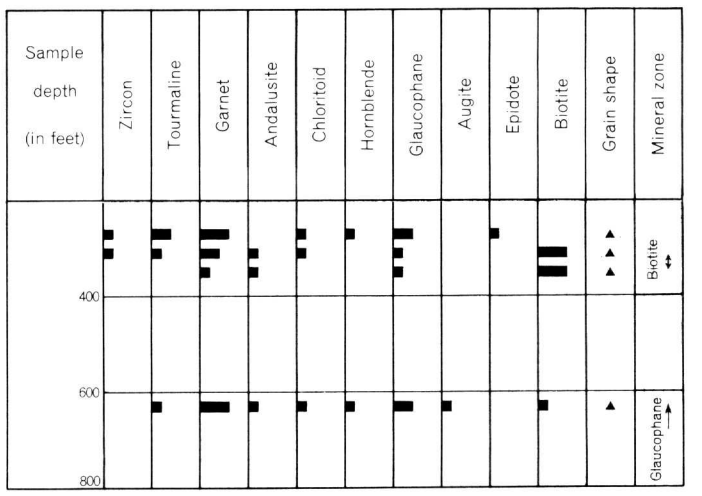
SIMPSON CORE TEST 29



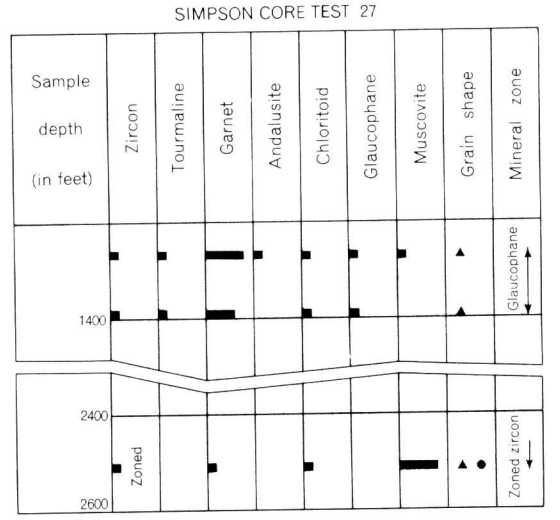
SIMPSON CORE TEST 24



SIMPSON CORE TEST 27

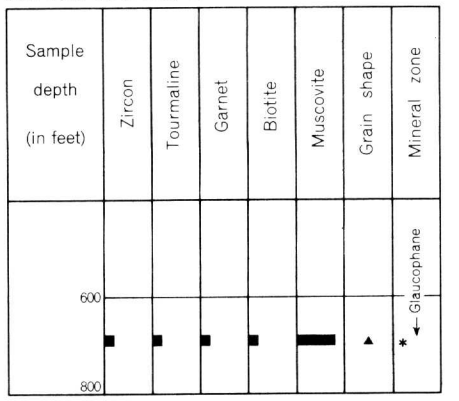


SIMPSON CORE TEST 30

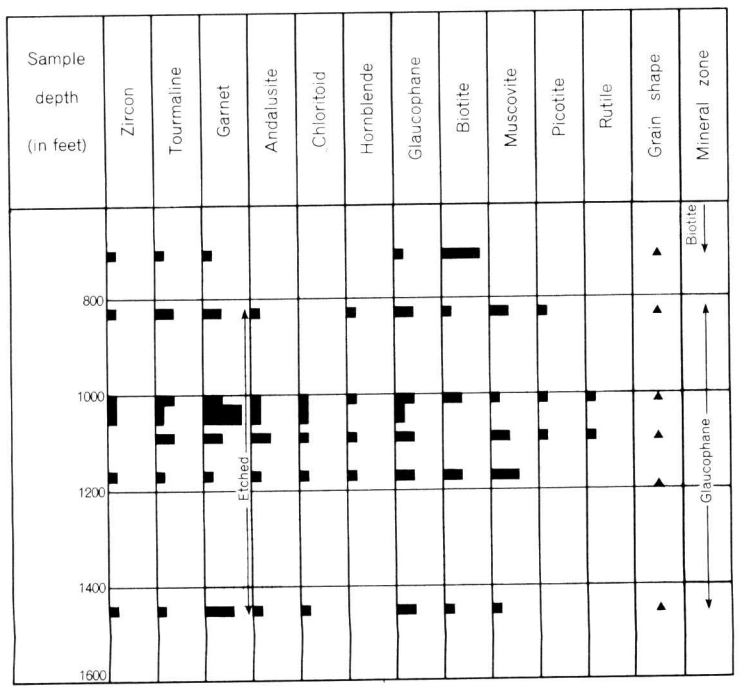


SIMPSON CORE TEST 28

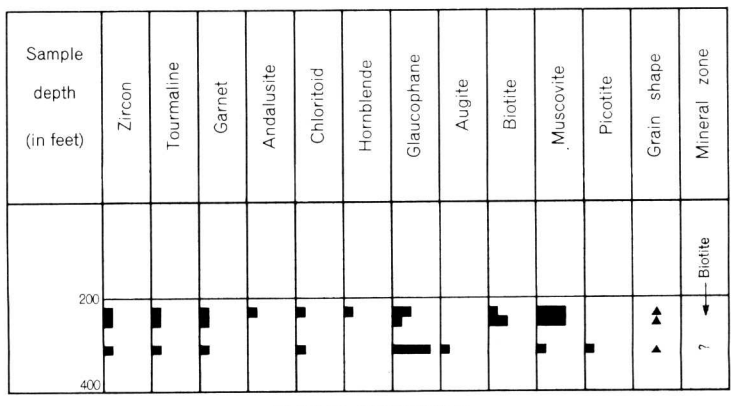
*This sample is probably within the zone on the basis of correlation with Simpson Core Test 30



SIMPSON CORE TEST 30a



SIMPSON CORE TEST 25



SIMPSON CORE TEST 31

EXPLANATION

Rare (Less than 10 percent)

Common (10 to 40 percent)

Abundant (40 to 80 percent)

Flood(over 80 percent)

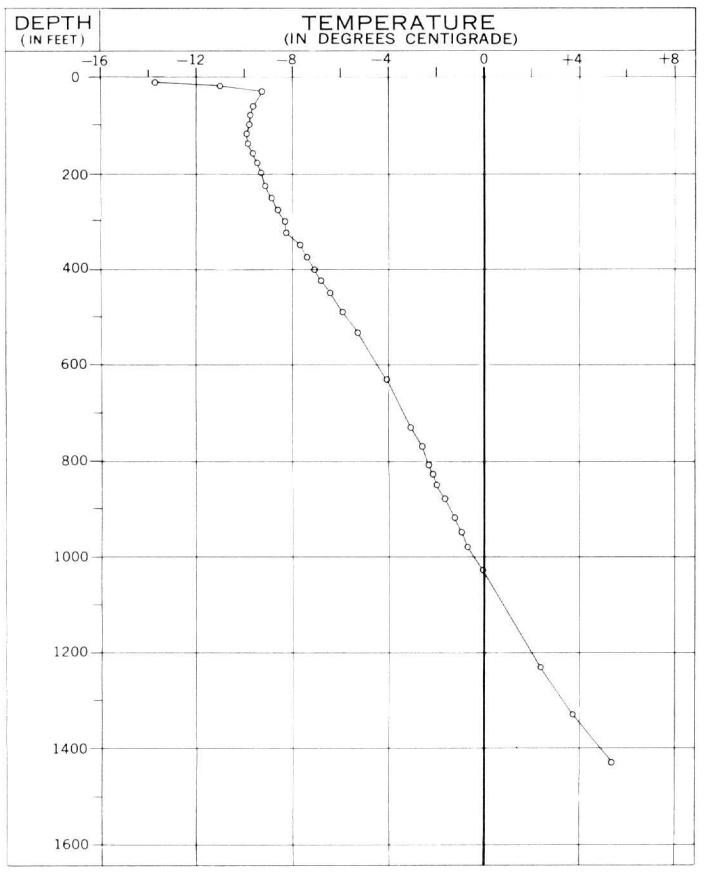
Angular

Rounded

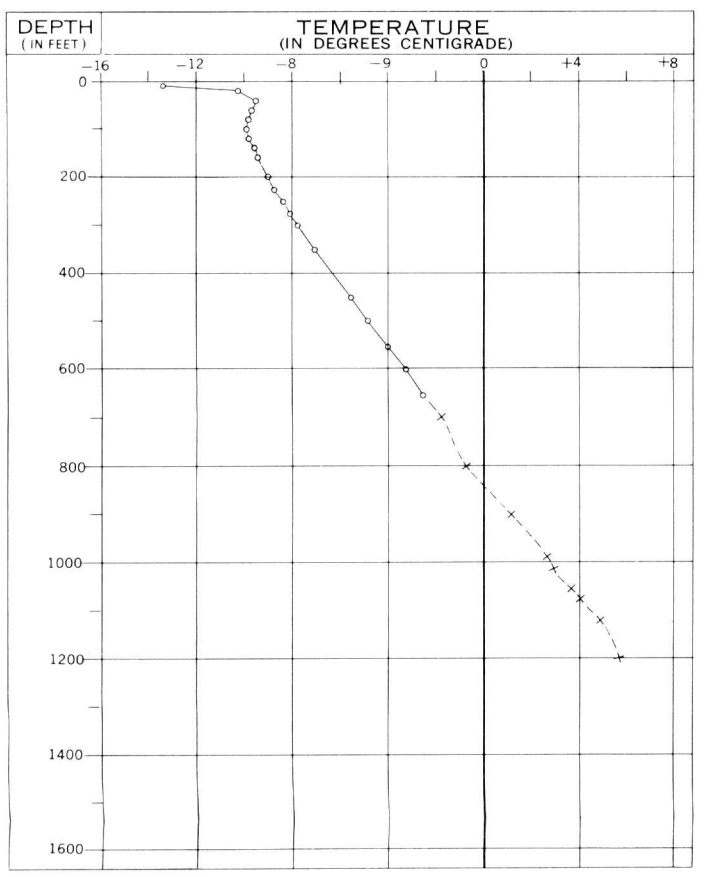
R. H. Morris

RELATIVE ABUNDANCE OF HEAVY MINERALS IN SIMPSON CORE TESTS 23–31, ALASKA

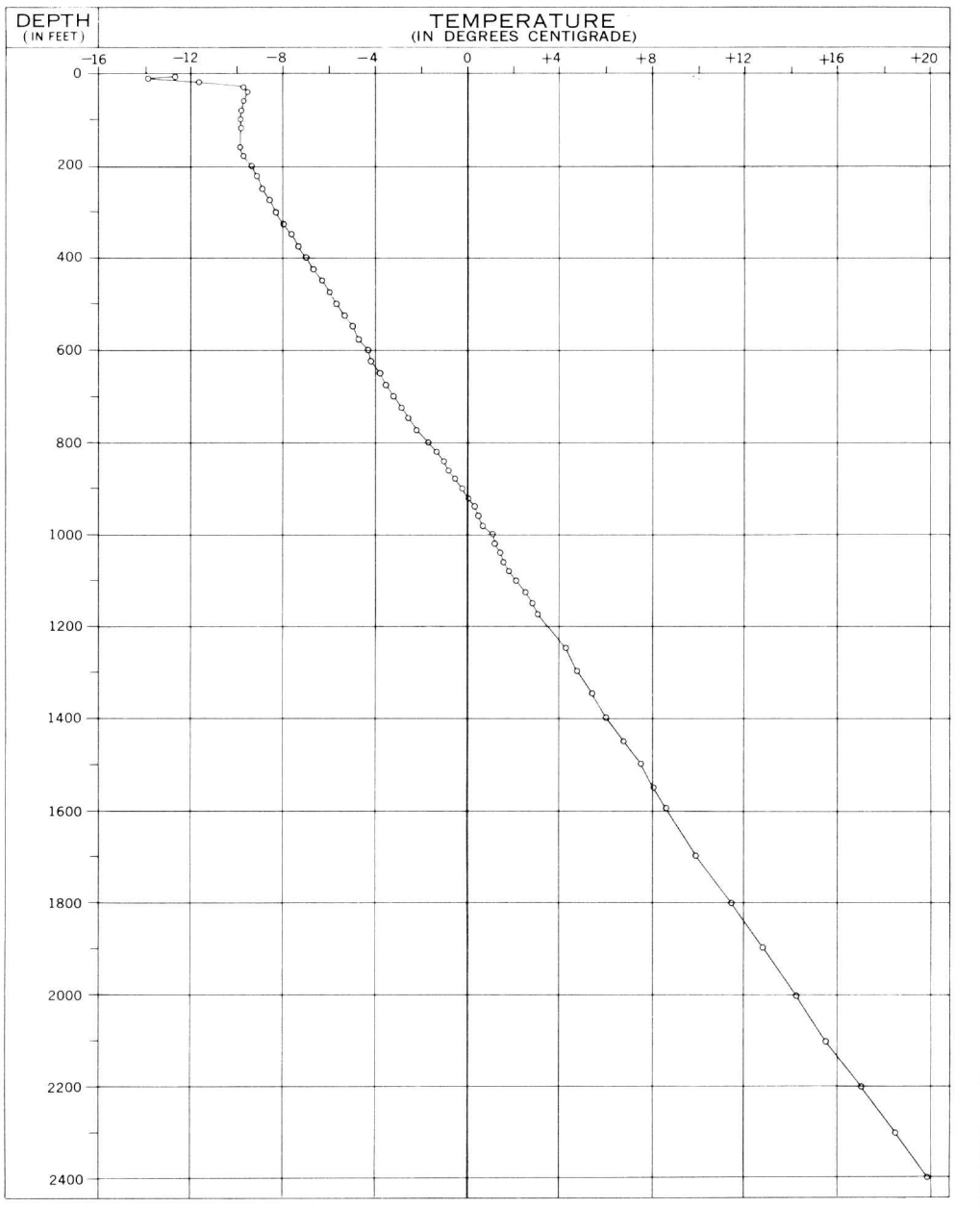
723-926 O - 64 (In pocket)



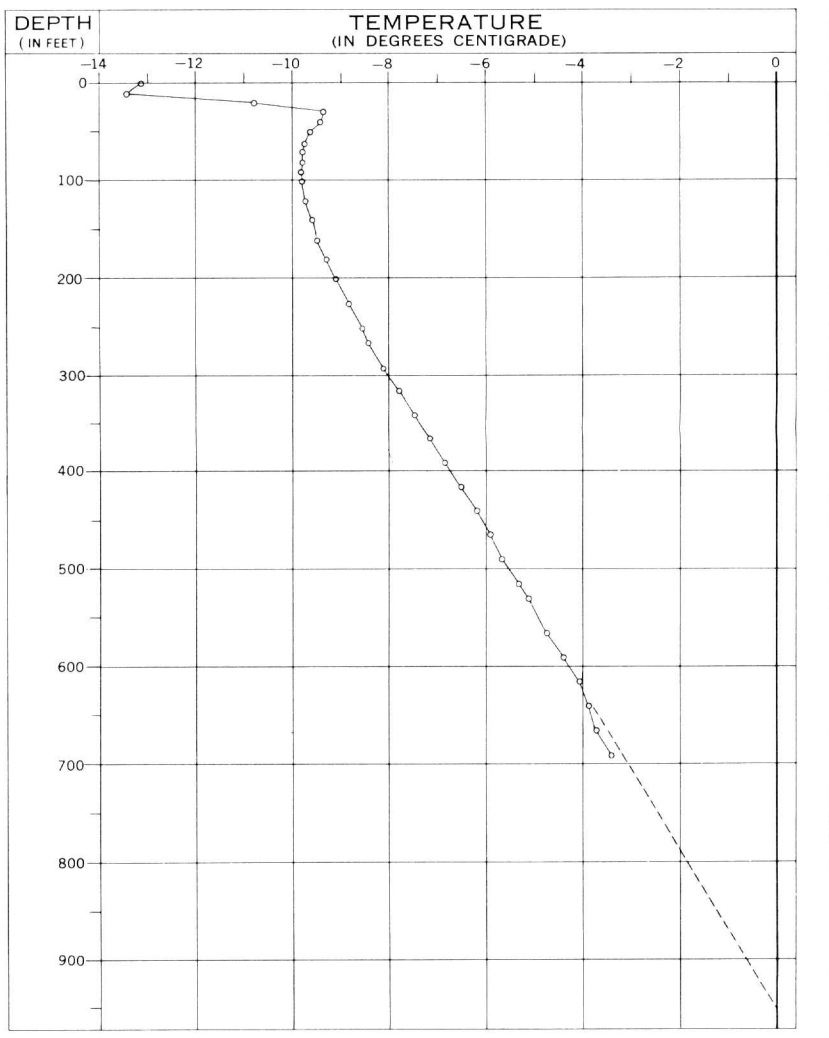
SIMPSON CORE TEST 13



SIMPSON CORE TEST 21



SIMPSON CORE TEST 28



SIMPSON CORE TEST 29

Max C. Brewer, 1957

GEOTHERMAL PROFILES, SIMPSON CORE TESTS 13, 21, 28, AND 29, ALASKA

723-926 O - 64 (In pocket)